

IVANKIN, P.F.; LIOGEN'KIY, S.Ya.

Electrical prospecting in the Rudnyy Altai. Vest.AN Kazakh.
SSR 12 no.8:15-24 '56. (MLRA 9:12)

(Altai Mountains--Prospecting--Geophysical methods)

D Geochemistry. Hydrochemistry. USSR/Cosmochemistry. : Ref Zhur ~ Khimiya, No. 8, 1957, 26514. Abs Jour

Ivankin, P.F. Scientific Research Institute of Mining Author Inst

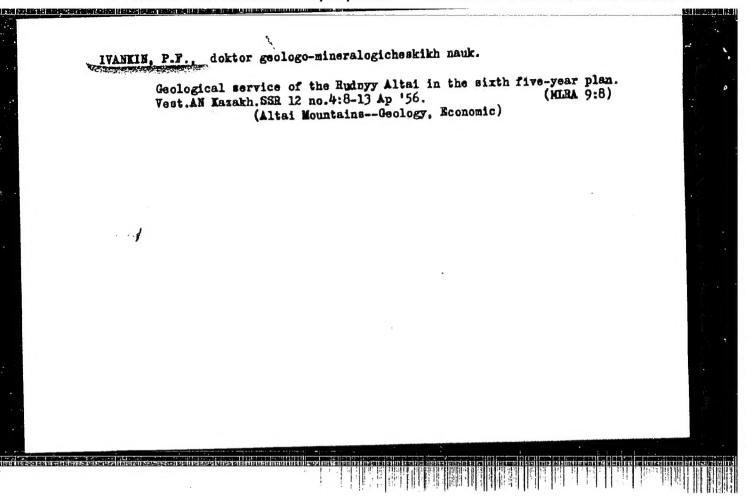
and Metallurgy of Altai. Questions of Geological Development of Title Mining Region of Altai at the Irtysh.

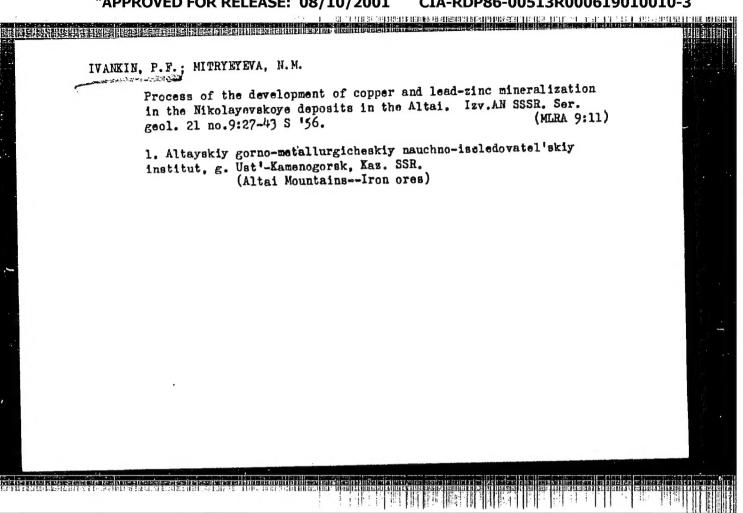
Tr. Altaysk. gorno-metallurg. n.-i. in-ta, 1956, 3, 5 - 49. Orig Pub

: No abstract. Abstract

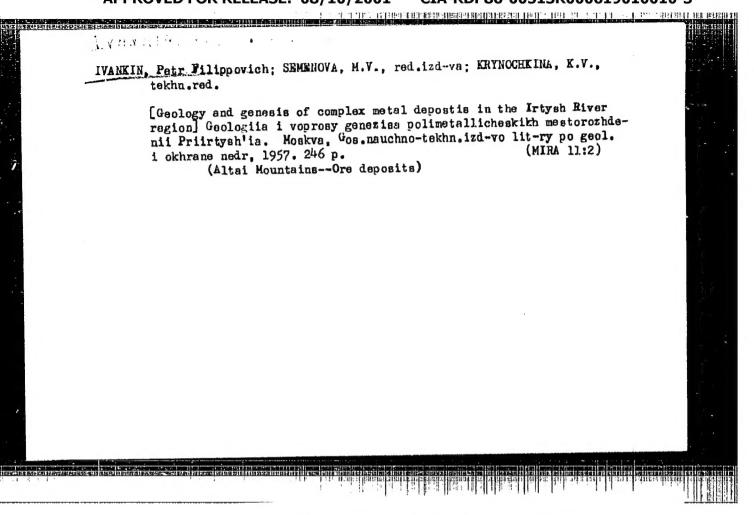
Card 1/1

CIA-RDP86-00513R000619010010-3" APPROVED FOR RELEASE: 08/10/2001





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IVANKIN, F.F.

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12-1-7/23

SUBJECT:

USSR/Geology

AUTHOR:

Ivankin, P.F., and Purkin, A.V.

TITLE:

"Structural Metallogenic Zoning of the Rudnyy Altay Ore Deposits Area as a Basis for Exploration and Prospecting". (Strukturno-metallogenicheskoye rayonirovaniye Rudnogo Altaya kak osnova vedeniya poiskovykh i razvedochnykh rabot)

PERIODICAL:

"Izvestiya Akademii Nauk SSSR", Seriya Geologicheskaya, 1957, #4, pp 84-97 (USSR).

ABSTRACT:

While the system of metallogenic zoning of the south-western territory of the Altay mountains by V.P. Nekhoroshev and P.P. Pilipenko had proved to be a valuable aid at prospecting in the past, these zoning schemes did not meet present requirements. Presently the question of origin of poly-metallic mineralization and its location gained great importance. Experience obtained at numerous large ore fields and deposits of sulfide ore has shown that assumptions of deposits can not be based solely on studies of respective geologic textures, but have to be based also on the knowledge of interrelations existing between the peculiarities of deposits and their geologic texture.

Card 1/4

见他们不是自由的主题的证明。这一个是一个人,我们还是一个人,我们还是一个人,我们还是一个人,我们还是一个人,我们还是一个人,我们还是一个人,我们还是一个人,我们

12-1-7/23

TITLE:

"Structural Metallogenic Zoning of the Rudnyy Altay Ore Deposits Area as a Basis for Exploration and Prospecting". (Strukturno-metallogenicheskoye rayonirovaniye rudnogo altaya kak osnova vedeniya poiskovykh i razvedochnykh rabot)

Lead-zink and copper deposits within the Rudnoy Altay area are dispersed over a wide territory and overlie different strato-traphic complexes of the central Paleozoic era. The vertical extent is also considerable, the stratographic thickness being 6-7 km. It is of importance to note that mineralization took place on all known intrusions of magmatic rocks. Peculiarities of sulfide layers are depending largely on the geologic texture and tectonic development, the metamorphosis of rocks and other circumstances accompanying the sedimentation of ore. These peculiarities enable to differentiate the poly-metallic belt of Rudnoy Altay.

The following characteristics can be used for the classification of ore bearing geologic layers: the relation of ore fields and deposits to regional textures and geologic complexes, the inner texture of ore fields and deposits and the shape of the ore layers. According to these symptoms, sulfide deposits of the Rudnoy Altay can be subdivided into 5 basic groups: 1) Ore fields and deposits located beyond the direct influences of

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11-1-7/23

TITLE:

"Structural Metallogenic Zoning of the Rudnyy Altay Ore Deposits Area as a Basis for Exploration and Prospecting". (Strukturno-metallogenicheskoye rayonirovaniye rudnogo altaya kak osnova vedeniya poiskovykh i razvedochnykh rabot)

regional wharping zones. 2) Ore fields and deposits located within the regional wharping zones, and 3) Ore fields and deposits located at some distance from the regional wharping zones.

The authors give a detailed account of the geologic peculiarities arising from the varying degree of deformation during and after the process of contortion.

The article contains 5 figures. The bibliography lists 10 references, of which 10 are Slavic (Russian)

ASSOCIATION: Trest "Altaytsvetmetrazvedka" of the Ministry of Non-Ferrous Metallurgy of the Kazakh SSR. Altay Mining Metallurgic Institute of the Academy of Sciences, Kazakh SSR, city of Ust'-Kamenogorsk.

PRESENTED BY:

SUBMITTED:

At the Session of TEKHSOVIET of the Ministry of Geology and Conservation of Natural Resources USSR, in conjunction with the Ministry of Non-Ferrous Metals and the Academy of Science of

Card 3/4

33-4-7/23

TITLE:

"Structural Metallogenic Zoning of the Rudnyy Altay Ore Daposits Area as a Basis for Exploration and Prospecting". (Strukturno-metallogenicheskoye rayonirovaniye rudnogo altaya kak

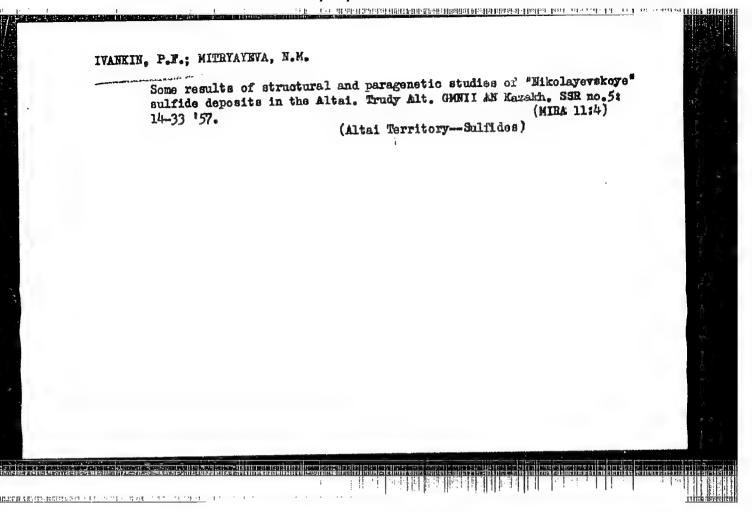
osnova vedeniya poiskovykh i razvedochnykh rabot)

the Kazakh SSR, July 17, 1954.

AVAILABLE:

At the Library of Congress.

Card 4/4



CIA-RDP86-00513R000619010010-3 "APPROVED FOR RELEASE: 08/10/2001

IVANKIN P.F.

AUTHOR:

Ivankin, P.F.

11-10-21/23

TITLE:

"Structural Geology" by G.D. Azhgirey (O knige About the Book

G.D. Azhgireya "Strukturnaya Geologiya")

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,

10, p 110-112 (USSR)

ABSTRACT:

For a period of 15 years, after the publication of "Structural Geology" by M.A. Usov, no new books were published on this subject. Thus the publication of G.D. Azhgirey's book on the subject, published by Moscow University, 1956, meets a long felt demand. The book is richly illustrated with geologic plans, structural charts, various schematic drawings, and photographs. The author deals in detail with the geologic structures of the Caucasus, Kazakhstan and the Altay. The book

is well edited and due to its ease of comprehensibility is

suitable for a wide circle of industrial geologists.

SUBMITTED:

26 December 1957 (Note: Evidently a typographical error)

AVAILABLE:

Library of Congress

Card 1/1

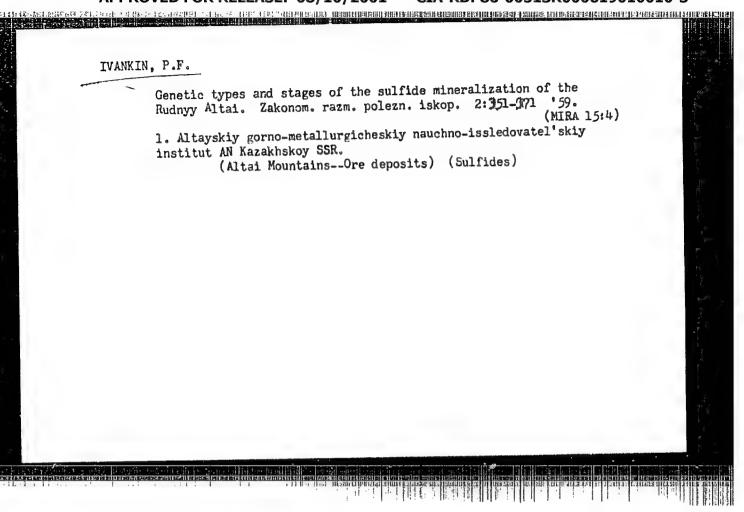
CIA-RDP86-00513R000619010010-3" APPROVED FOR RELEASE: 08/10/2001

IVANKIN, P.F., doktor geologo-mineralogicheskikh nauk; KUZEBNYY, V.S.,
remendat geologo-mineralogicheskikh nauk.

Methods for petrographic and mineralogical study of ore zones
in the Irtysh Valley. Vest. AN Eazakh. SSR 13 no.6:22-32 Je
(MLRA 10:9)

157. (Irtysh Valley-Ore deposits)

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AVROV, P.Ya.: AYTALIYEV, Zb. A.; AUEZOV, M.O.; AKHMEDSAPIH, U.M.; BATISHCHEV-TARASOV, S.D.; BLZAHOVA, M.U.; BAISHEV, S.B.; BAYKONURDV, A.B.; BECKTUROV, A.B.; BECKTUROV, A.B.; BECKTUROV, A.B.; BECKTUROV, A.B.; BECKTUROV, A.R.; ZHILINSEIY, C.R.; ZYKOV, D.A.; LYAIKHIH, P.Z.; KAZANLI, D.W.; KAYUFOV, A.K.; ZHNESAYEV, S.K.; KULTURING, C.T.; MEDOY, G.T.S.; MODICH, V.K.; MUKANOV, S.; MISSEROV, G., INKANANDERANGV, S.M.; PARSHIH, A.V.; POFROVSKIY, S.M.; POLOSUKHIN, A.P.; RUSAKOV, M.P.; SERGYEV, M.G.; SHYULLIH, S.SO.; TAZHIBAYZV, P.T.; FESHKOV, T.G.; SHLYGIM, YG.D.; SHCHERRA, G.N.; CHOKIN, Sh.Ch.; CHOLPAIKULOV, T.Gh.

Sixtieth birthday of Academician Kanyah Imantaevich Sabbaev, Vest. AN Kazakh. SSR 15 no.4:58-61 Ap 159. (MIRA 12:7)

(Sabpaev, Kanyah Iwantaevich, 1899-)

3(5) AUTHOR:

Ivankin, P. F.

507/20-126-4-41/62

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TITLE:

Zonality of the Pyrite Series in the Deposits of the Irtysh Crumpling Zone in the Altay (Zonal'nost' kolchedannogo ryada

mestorozhdeniy Irtyshskoy zony smyatiya na Altaye)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 838 - 840

(USSR)

ABSTRACT:

The zone mentioned in the title - one of the most important zones in the south-western Altay - contains a large group of minable sulphide deposits. They formed in the Upper Paleozcic (Ref 2). The depth of their formation widely varied in different parts of the Irtysh zone, probably from 2-3 to 5-6 km and more. The deposits are "continuous" (skvoznoy) for all Paleozoic calcareous masses and show no direct genetic relations with the large intrusions of the Zmeinogorskiy complex. However, there exists a close spatial, structural, and chronological relation with the later small intrusions of the plagio-granite-porphyrs, albitophyres, and porphyrites (Ref 2). This indicates a great depth of the deposits of the sulphide-fluorides. As was shown by the investigations of the author (Ref 2) special structural conditions for infiltration metasomatic processes (Ref 2)

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Zonality of the Pyrite Series in the Deposits of the SOV/20-126-4-41/62 Irtysh Crumpling Zone in the Altay

existed in the Irtysh zone owing to a combination of perfect tectonic anisotropies (a plane parallel and a linear one), Under these conditions the mineralizing solutions flowing upwards formed compact rays which entered the zone of schists in a linear direction. For this reason enormously long (3-4 km) ore deposits of a band type are formed which are also included in narrow but very long (7-8 km and more) zones of rocks changed by the ore contact. The totality of the ore zones may be represented as a column. Transition formations (Refs 1,3,4) are found between the most extreme members: copper pyrrhotite and the polymetallic type. Independent of their position in the column the sulphide deposits formed in 2 main stages: a) in the pre-ore stage a strong metasomatic change of the containing rocks took place in the range of the band--shaped structures. b) in the second stage, the ore stage proper, the solutions, varying in their composition, (2-3 stages) deposited ores of non-ferrous metals and relatively small amounts of vein minerals. They fill pores, gaps etc. and form inclusions in ores by crystallizing mainly from the solution. The solutions of the pre-ore stage were first gase-

Card 2/3

Zonality of the Pyrite Series in the Deposits of the SOV/20-126-4-41/62 Irtysh Crumpling Zone in the Altay

ous and diluted-hydrothermal. Sometimes they were strongly concentrated and sometimes they were capable of injection or of stripping of rocks. 3 main zones were separated: (from top to below): 1) the upper zone - with a strong predominance of the phenomena of deposition over the leaching of bases at low temperatures; 2) the intermediate zone of acidic leaching at mainly medium temperatures; 3) the lower zone of the high—temperature substitution of lateral rocks by magnesium. There are 4 Soviet references.

ASSOCIATION:

Gorno-metallurgicheskiy nauchno-issledovateliskiy institut Akademii nauk SSSR g. Ust'-Kamenogorsk (Mining-Metallurgical Scientific Research Institute of the Academy of Sciences, USSR, Ust'-Kamenogorsk)

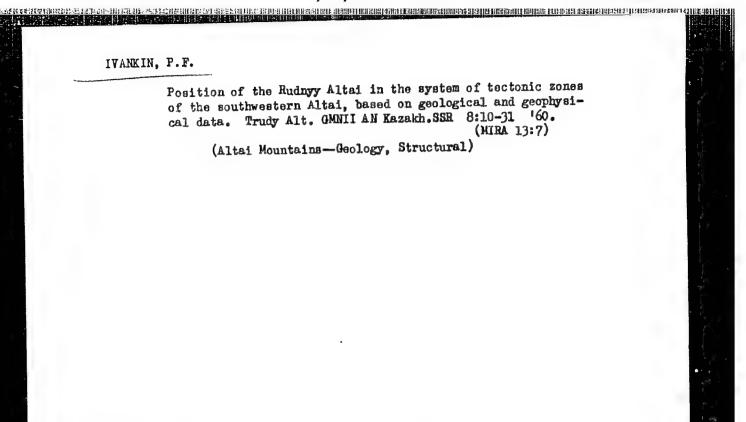
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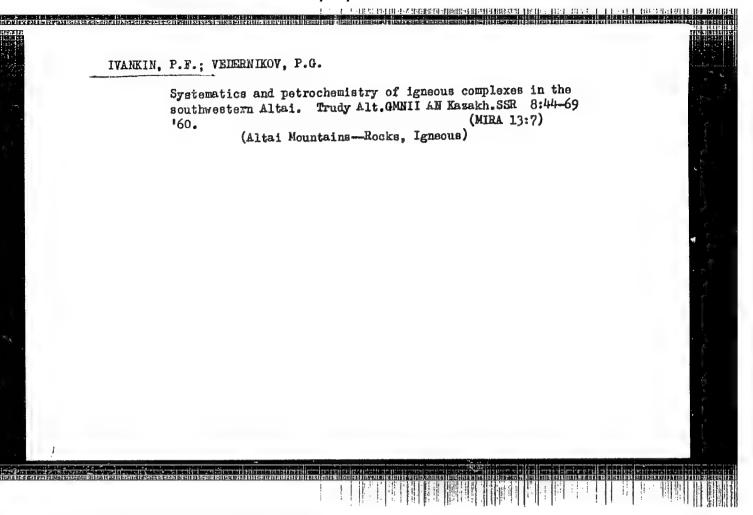
December 22, 1958, by D. S. Korzhinskiy, Academician

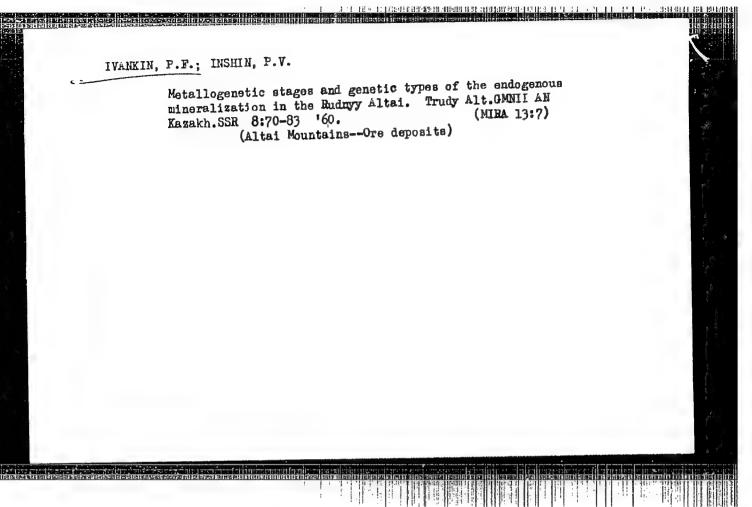
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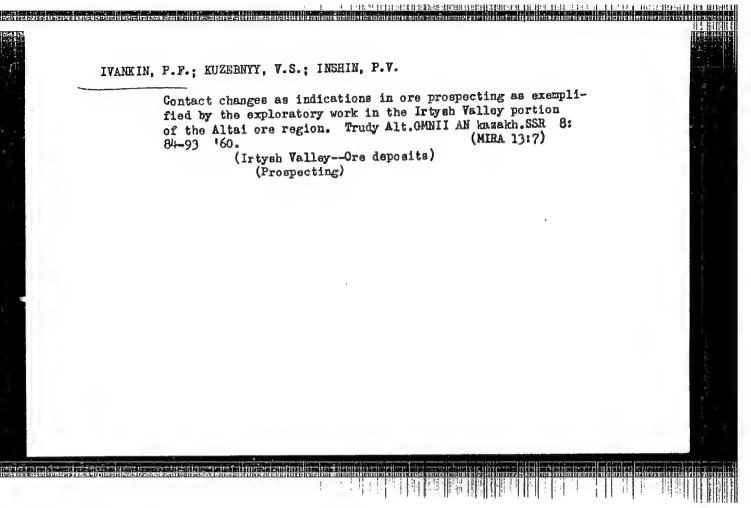
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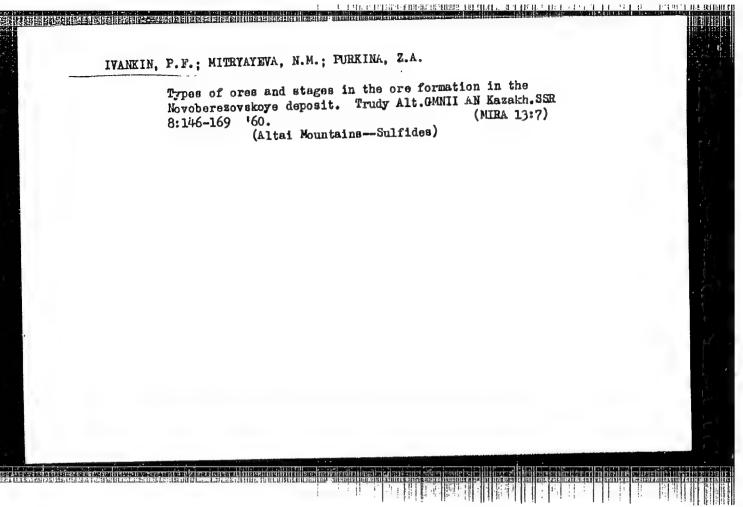


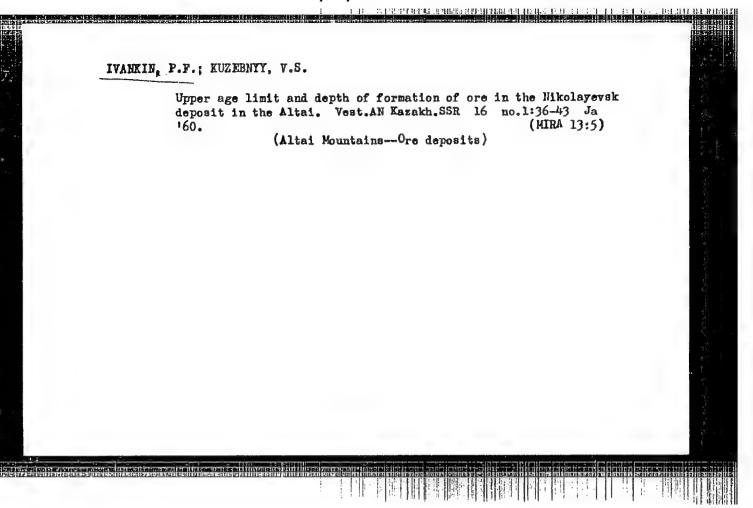


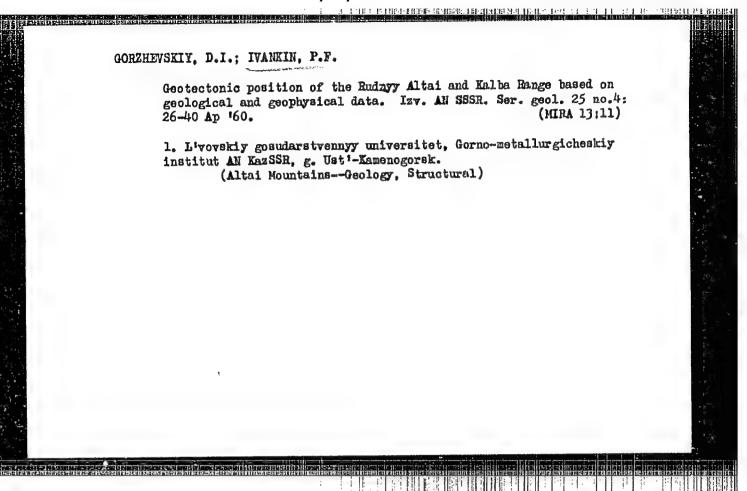
VOROB'YEV, Yu.Yu.; IVANKIN, P.F.; KUZEBNYY, V.S.; LIKHDDED, R.Ya.

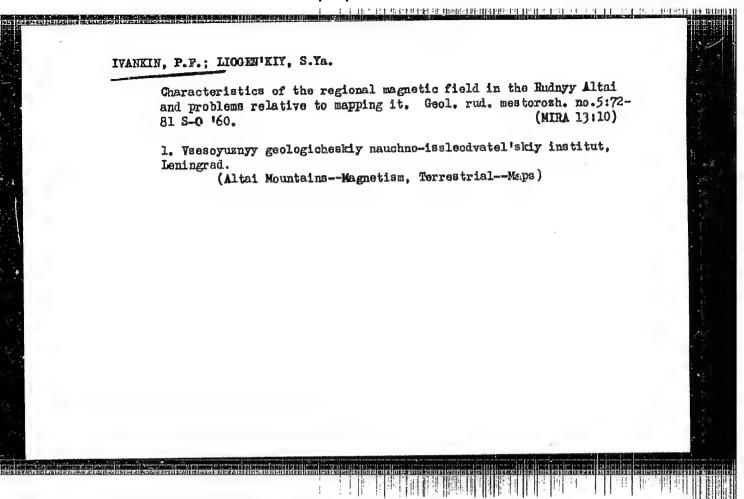
Relationship between the hydrothermal metamorphism and sulfide mineralization in the Berezovskiy-Belousovskiy ore region. Trudy Alt.OMNII AN Kazakh.SSR 8:126-145 '60.

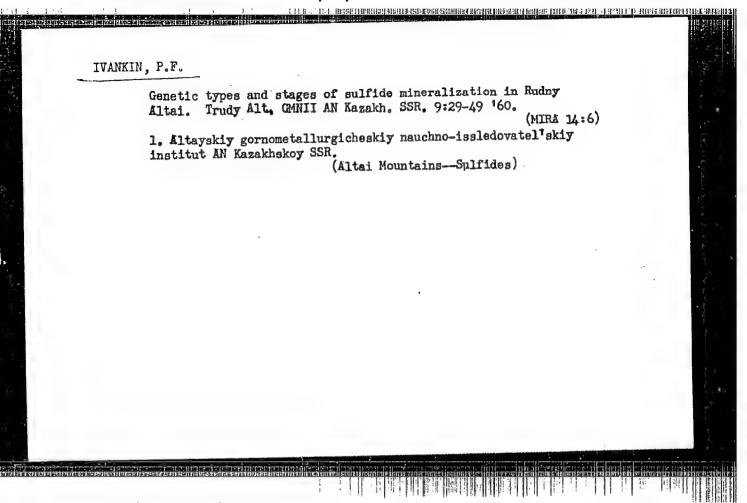
(Altai Mountaina-Sulfides)
(Metamorphism(Geology))











IVANKIN, Petr Filippovich, doktor geologo-minor. nauk; INSHIN, Pavel
Viktorovich; &UZEENYY, Valentin Stepanovich; POGOZHEV, A.S.,
red.; ALFEROVA, P.F., tekhm. red.

[Ore formations of the Rudnyy Altai] Rudnye formatsii Rudnogo
Altaia. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1961. 285 p.
(MIRA 15:2)

(Altai Mountains-Ore deposits)

ABDULLAYEV, Kh.M.; ALYAVDIN, V.F.; AMIRASIANOV, A.A.; ANIKEYEV, N.P.;

ARAPOV. Yu.A.; BARSANOV, G.P.; HELYAYEVSKIY, N.A.; BOKIY, G.P.;

BORODAYEVSKAYA, M.B.; GOVOROV, I.N.; GODLEVSKIY, M.N.; SHCHEGLOV, A.D.;

SHAKHOV, F.N.; SHILO, N.A.; YARMOLYUK, V.A.; DRABKIN, I.Ye.;

YEROFEYEV, B.N.; YERSHOV, A.D.; IVANKIN, P.F.; ITSIKSON, M.I.;

KARPOVA, Ye.D.; KASHIN, S.A.; KASHKAY, M.A.; KORZHINSKIY, D.S.;

KOSOV, B.M.; KOTLYAR, V.N.; KREYTER, V.M.; KUZNETSOV, V.A.; LUGOV,

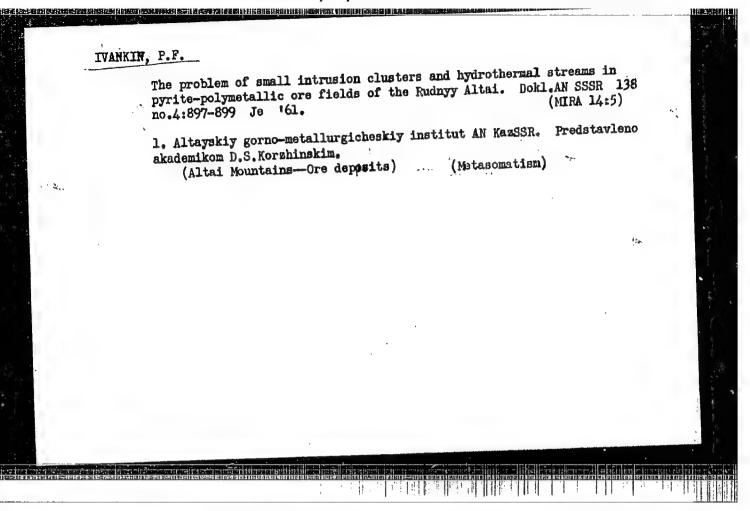
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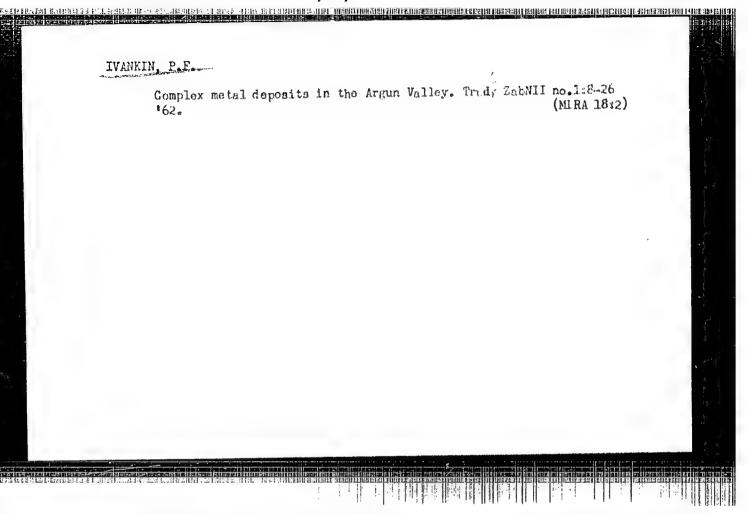
SATPAYEV, K.I.; SMIRNOV, V.I.; SOBOLEV, V.S.; SOKOLOV, G.A.; STRAKHOV,

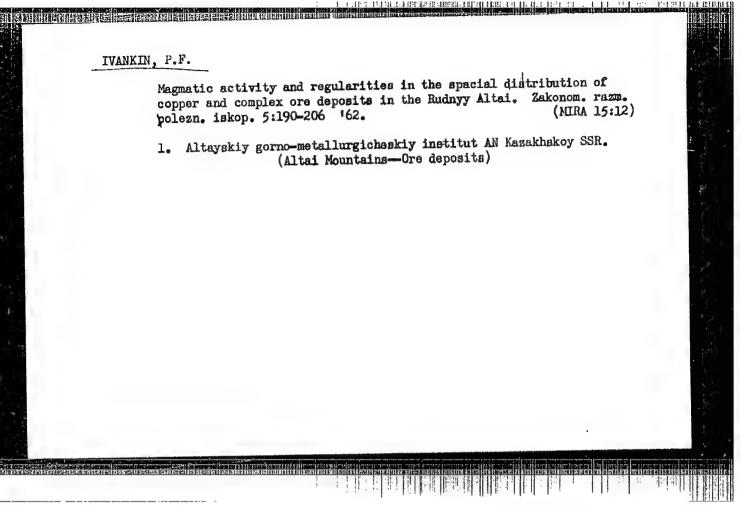
N.M.; TATARINOV, I.M.; KHRUSHCHOV, N.A.; TSAREGRADSKIY, V.A.;

CHUKHROV, F.V.

In memory of Oleg Dmitrievich Levitskii; obiturary. Sov.geol. 4 ho.5:156-158 My '61. (MIRA 14:6) (Levitskii, Oleg Dmitrievich, 1909-1961)



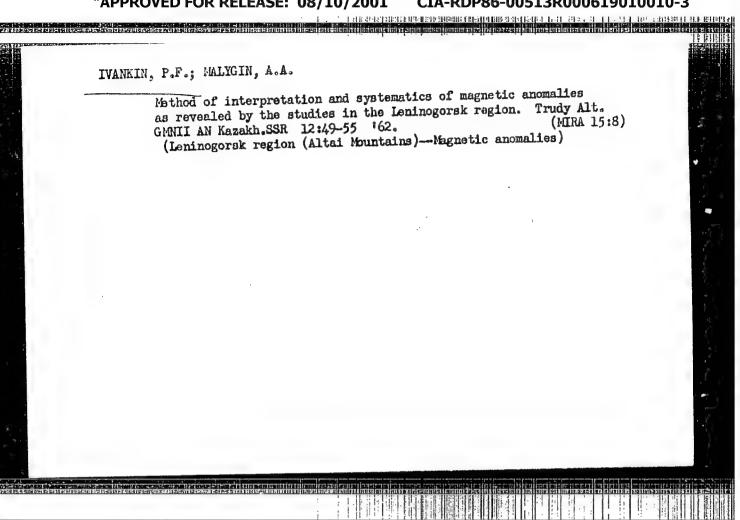




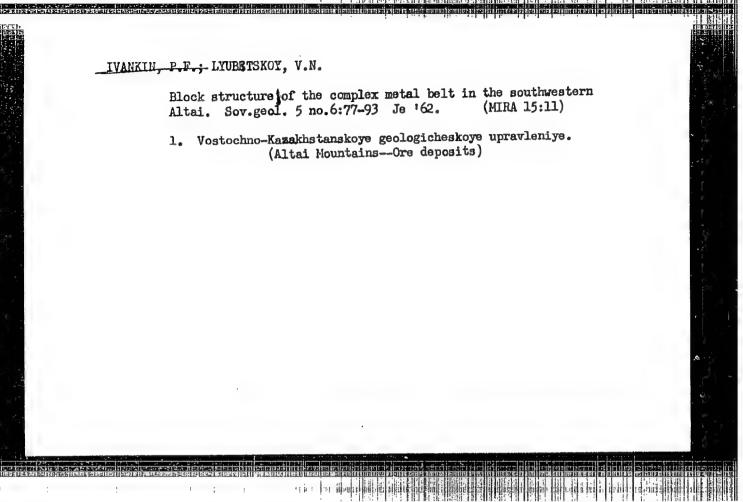
VOLKOV, V.M.; VOROB'YEV, Yu.Yu.; IVANKIN, P.F.; STUCHEVSKIY, N.I.

Experience and methods of large-scale prediction in the Berezovo-Belousovka ore deposit. Trudy Alt.GMMII AN Kazakh.SSR 12:37-48

'62. (Altai Mountains—Ore deposits)

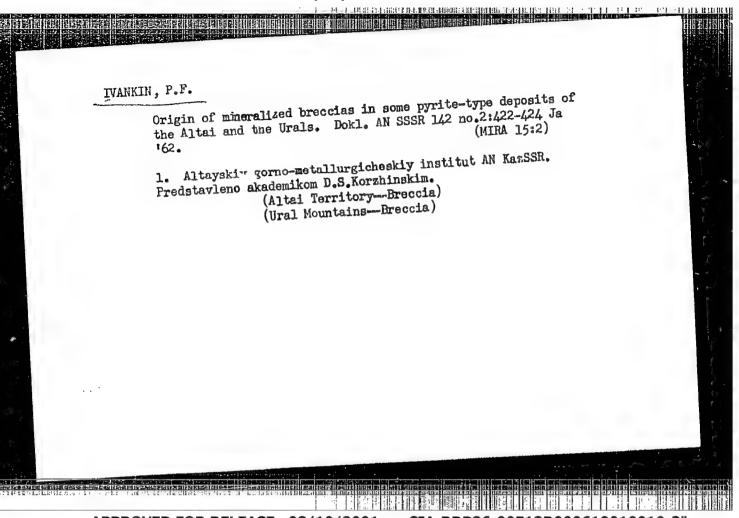


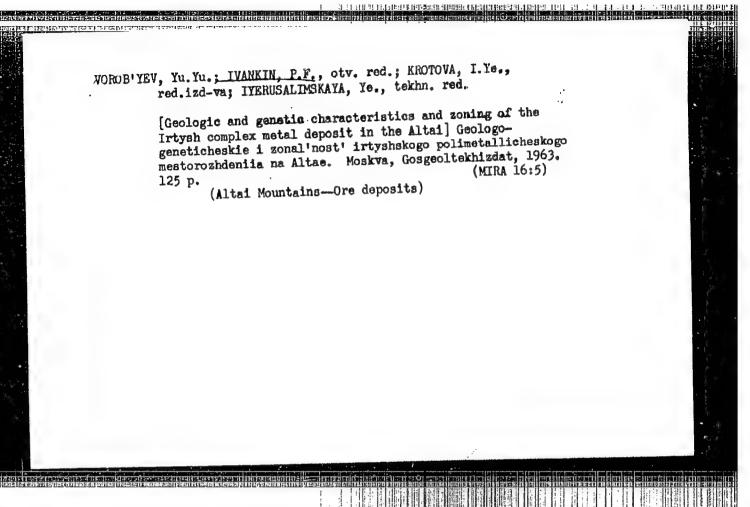
APPROVED FOR RELEASE: 08/10/2001



VEDERNIKOV, P.G.; IVANKIN, P.F., doktor geologo-mineralogicheskikh nauk; SHNAYDER, M.S.

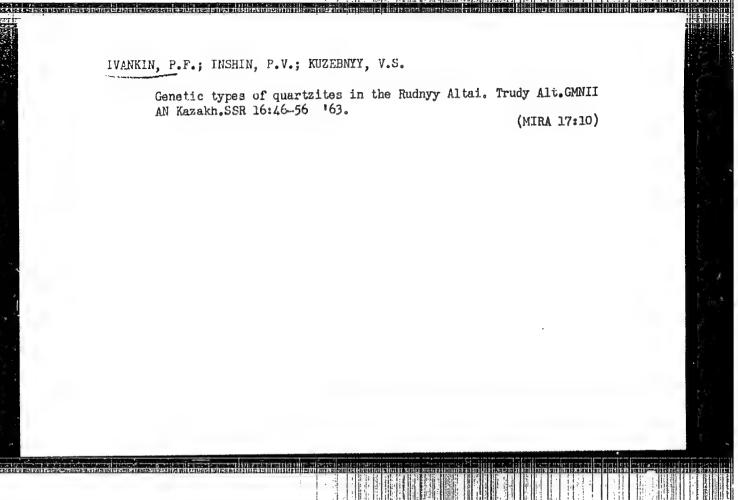
Recent data on small intrusions and sulfide mineralization in the upper Paleozoic coal-bearing stratum of the Rudnyy Altai. Vest.AN Kazakh.SSR 18 no.3:35-42 Mr '62. (MIRA 15:3) (Altai Mountains-Ore deposits)

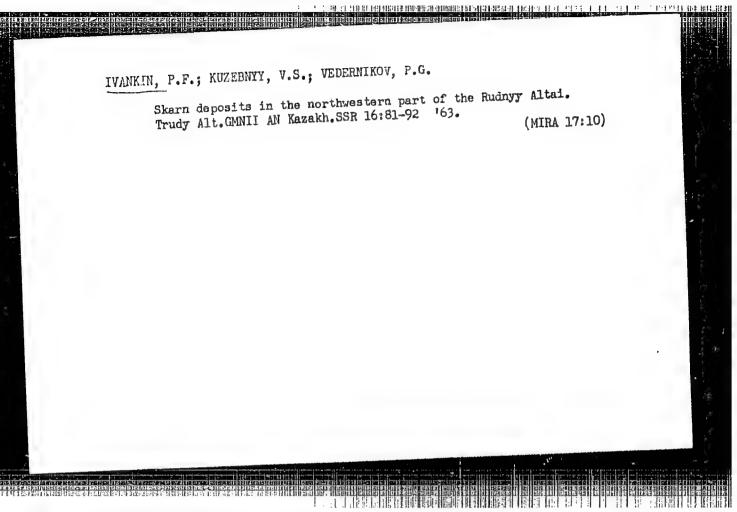


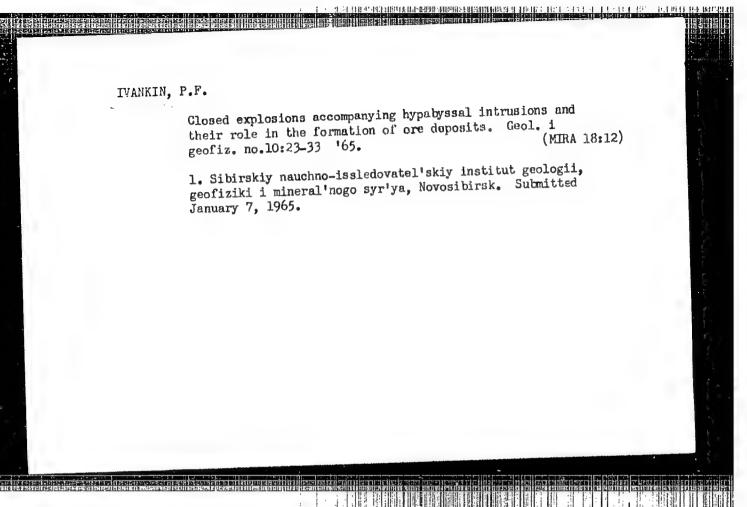


Morphological types of clusters of small intrusives and hydrothermal jets. Dokl. AN SSSR 149 no.4:925-927 Ap '63. (MIRA 16:3)

1. Gorno-metallurgicheskiy nauchno-issledovatel'skiy institut AN KazSSR. Predstavleno akademikom D.S.Korzhinskim.
(Mining geology)





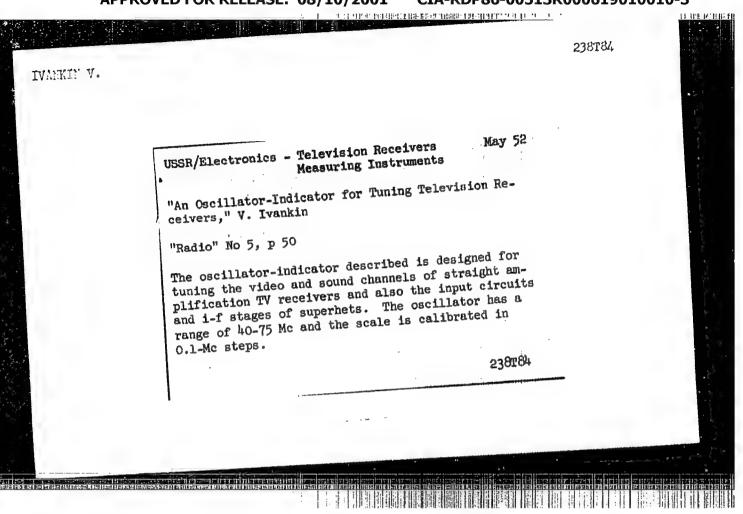


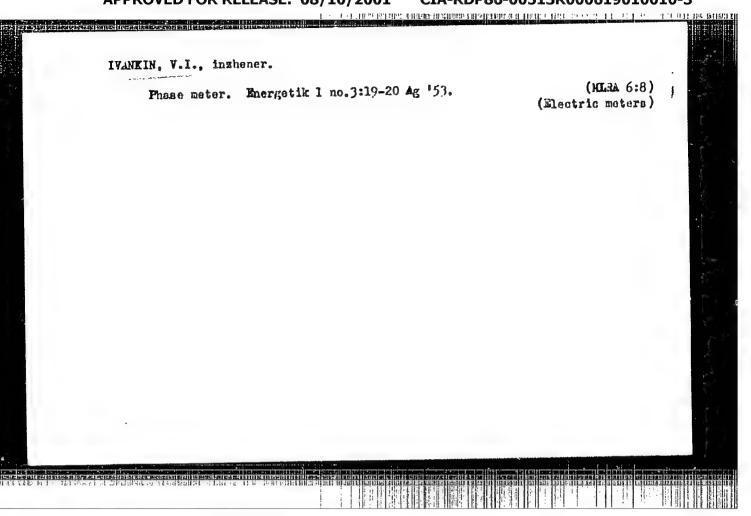
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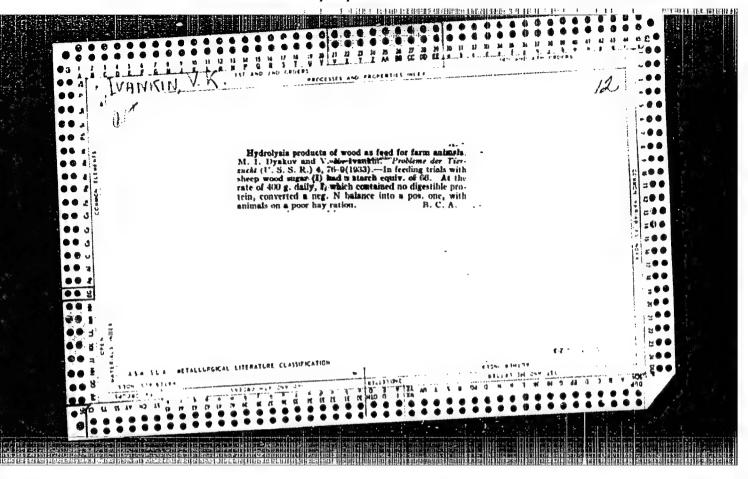
BASALAYEV, A.A., polkovnik meditsinskoy sluzhby; PRIKHOD'KO, G.F., podpolkovnik meditsinskoy sluzhby; IVANKIN, P.K., podpolkovnik meditsinskoy sluzhby

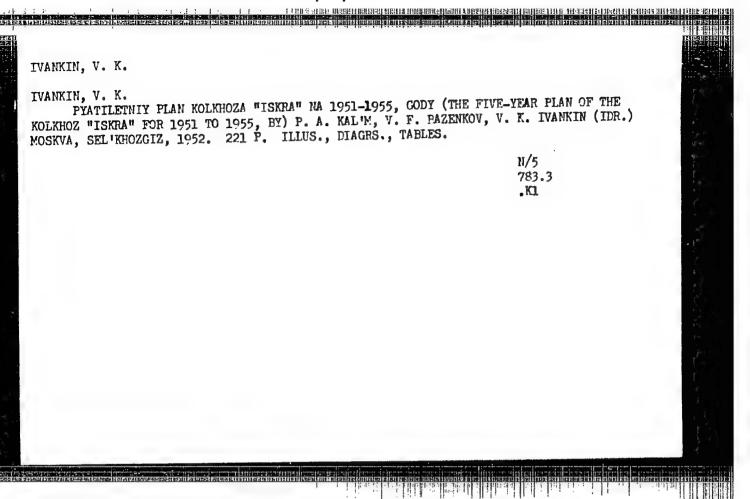
Cases of tonsillitis of adenoviral etiology. Voen.-med. zhur. no.2:48-49 165.

(MIRA 18:11)









Name: IVANKIN, Vasiliy Kirillovich

Dissertation: Metabolism and energy in geese and basis of the method of evaluating the general nutritiousness of fooder for fowl

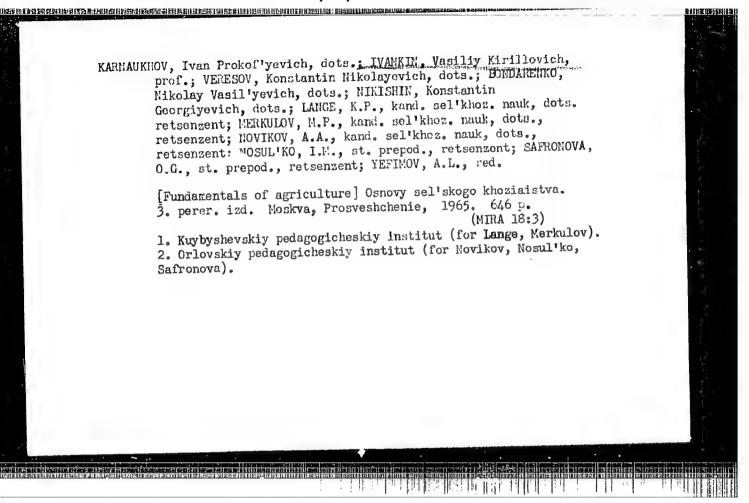
Degree: Doc Agr Sci

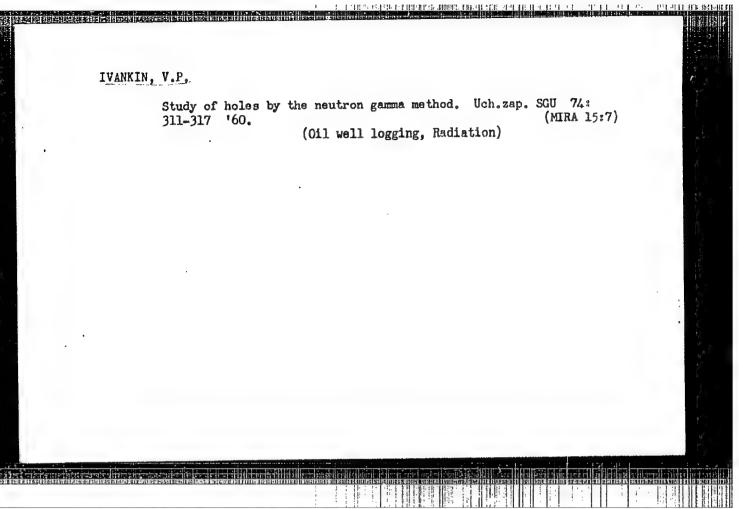
Affiliation: /not indicated/

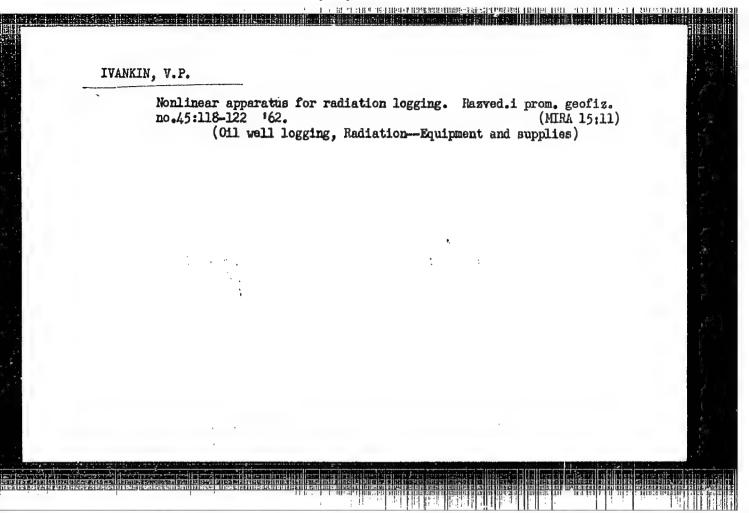
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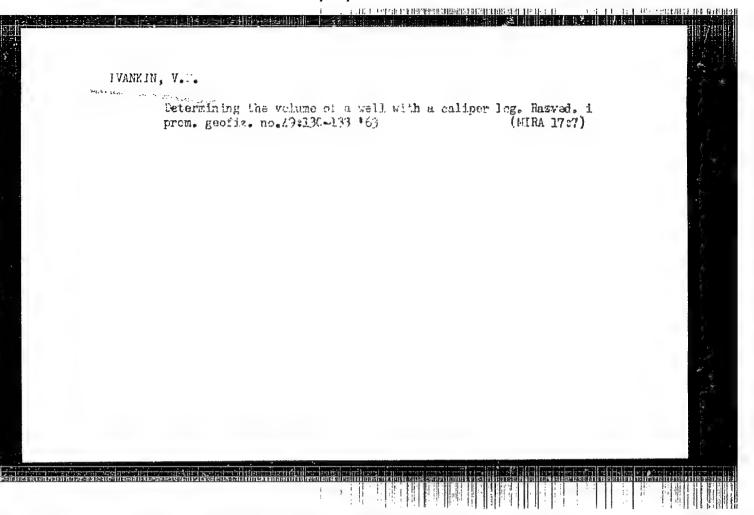
Certification Date: 6 Jul 57

Source: BMVO 18/57







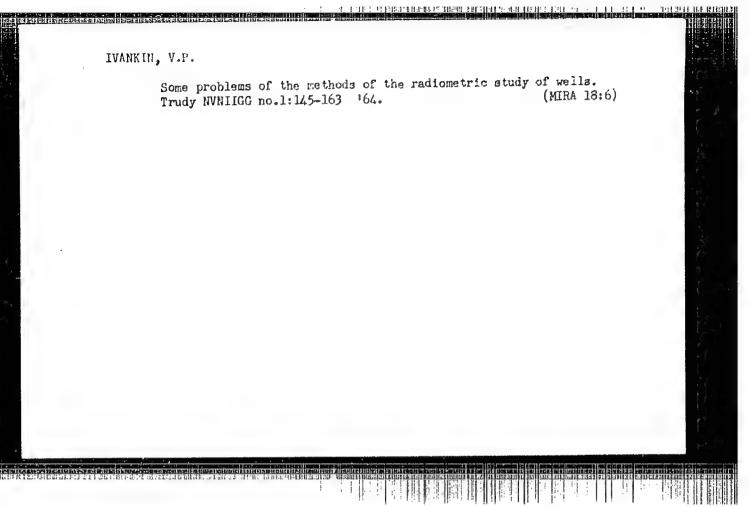


IVANKIN, V.P.; #OLIGHEVSKIY, Yu.M.

Determining the nonlinearity of radioactive logging apparatus.

Razved. i prom. geofiz. no.50:119-120 '63.

(MIRA 18:3)



IVANKIN, Ya.I.; KOVALEVSKIY, P.P.; BIDULYA, V.I.; TSUKUR, I.D.

Improving the control of apparatus for industrial gammaray flaw detection. Zav.lab. 23 no.9:1127-1128 '57. (MIRA 10:12)

1. Dnepropetrovskiy zavod metallurgicheskogo oborudovaniya. (Materials—Testing)

TVANKIN, Ya. I.

AUTHOR:

Ivankin, Ya.I., Kovalevskiy, P.P., Bidulya, V.I., 32-9-29/43

Tsukur, I.D.

TITLE

Perfectioning of the Control of Apparatus for Industrial Gauma Defectoscopy (Usovershenstvovaniye upravleniya apparatov dlya

promyshlennoy gamma-defektoskopii)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 9, pp. 1127-1128 (USSR)

ABSTRACT:

The apparatus GUP-Co-5-1 and GUP-Co-50-1, which are being produced by the "Mosrentgen" plant, have an important disadvantage in that the switchboard for the radioactive source is mounted immediately on the understructure of the device near the protective shield of the preparation. Here a new construction, in which the switchboard is fitted on a separate table, is described. By making use of a cable of 21 m length, which connects the apparatus with the operator stand, and of an operating stand of 7 m length, the person operating controls is able to work at a distance of 28 m from the source from an open stand, so that full safety is warranted. There

is 1 figure.

ASSOCIATION:

Dnepropetrovsk Plant for Metallurgical Equipment (Dnepropetrovskiy

zavod metallurgicheskogo oborudovaniya)

AVAILABLE:

Library of Congress

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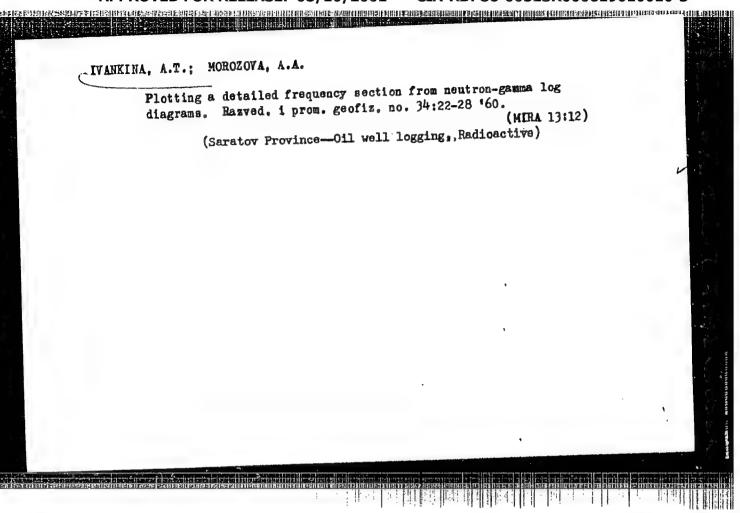
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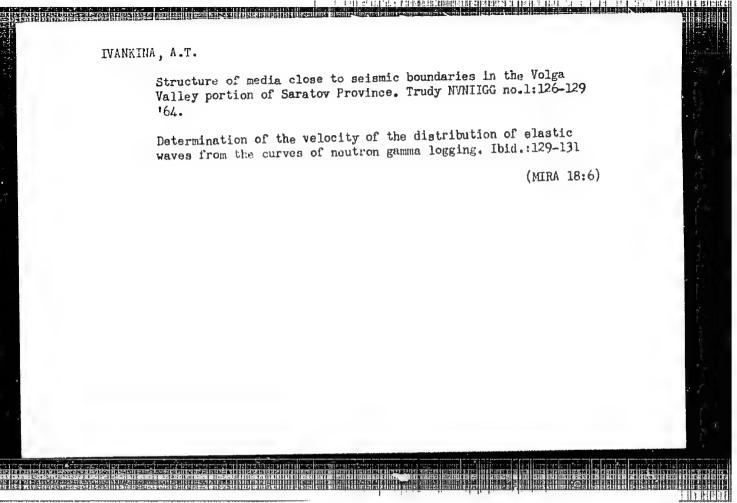
POLUKHIN, P.I.; BERKOVSKIY, V.S.; OSADCHIY, A.N.; STETSENKO, N.V.;

ATRUMIN, P.M.; IVANKIN, YM.I.

Oval and edged oval system of roll passes on tandem light section mills for rolling high alloy steel. Stal' 25 no.4: 337-341 Ap '65.

1. Moskovskiy institut stali i splavov i Zavod "Dneprospetsstal'".





ACC NR: AR6033759 SOURCE CODE: UR/0081/66/000/018/P014/P014

AUTHOR: Chesnokov, A. A.; Ivankina, E. B.; Brendes, V. P.

TITLE: Influence of naphthenes on the deparaffination process of residual

raffinates

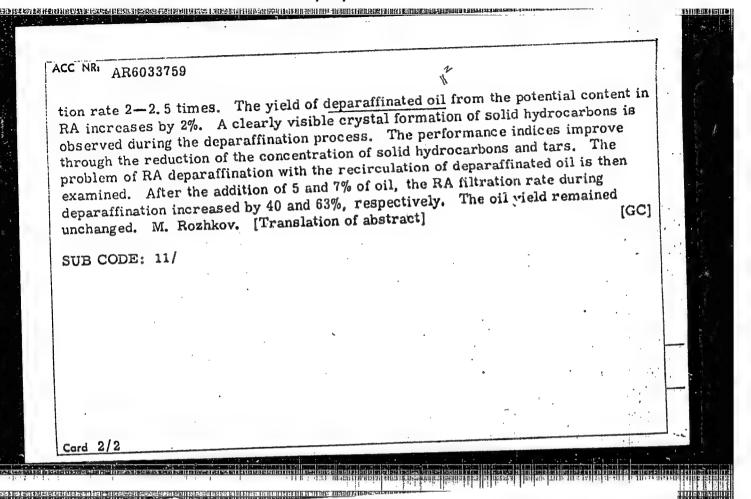
SOURCE: Ref. zh. Khimiya, Part II, Abs. 18P97

REF SOURCE: Tr. Kuybyshevsk. n.-i. in-t neft. prom-sti, vyp. 32, 1965, 86-96

TOPIC TAGS: hydrocarbon, mineral oil, deparaffination, petroleum product

ABSTRACT: The influence of naphthene hydrocarbons on the deparaffination process was studied. Residual raffinate (RA) of industrial manufacture (RA density, 0.883; viscosity, 18.69 centistoke at 100C) was used as raw material. Naphthene hydrocarbons (density, 0.8678—0.8775; viscosity, 15, 18, 17.38 centistoke at 100C; viscosity index 110—100) were separated from the RA by adsorption and then added to the initial RA in the amount of 1 to 20%. The mixtures then deparaffinized. It is shown that even an insignificant increase in the naphthene content in RA, increases filtration rate 1.5 times, while an increase to 10—20% raises the filtra-

Card 1/2



ACC NRI AR6033759 SOURCE CODE: UR/0081/66/000/018/P014/P014

AUTHOR: Chesnokov, A. A.; Ivankina, E. B.; Brendes, V. P.

TITLE: Influence of naphthenes on the deparaffination process of residual raffinates

SOURCE: Ref. zh. Khimiya, Part II, Abs. 18P97

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Card 1/2

ACC NRI AR6033759 tion rate 2-2.5 times. The yield of deparaffinated oil from the potential content in RA increases by 2%. A clearly visible crystal formation of solid hydrocarbons is observed during the deparaffination process. The performance indices improve through the reduction of the concentration of solid hydrocarbons and tars. The

problem of RA deparaffination with the recirculation of deparaffinated oil is then examined. After the addition of 5 and 7% of oil, the RA filtration rate during deparaffination increased by 40 and 63%, respectively. The oil yield remained [GC]

unchanged. M. Rozhkov. [Translation of abstract]

SUB CODE: 11/

CIA-RDP86-00513R000619010010-3" APPROVED FOR RELEASE: 08/10/2001

TITLE: Stability of transformer oil in relation to the nature of the crude

SOURCE: Nesteper rabotka i nestekhimiya, no. 11, 1964, 15-17

TOPIC TAGS: transformer oil. Tuymazy* petroleum, hydrogenated petroleum, Mulchanov

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Cord 1/2

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s v Smirnova and technicians L.I. Chibrikova and M.S. Bugrovakaya took part in the experimental work." Orig. art. has: I table.

ASSOCIATION: KNIINP; Novokuyby*shevskiy zavod (Novokuyby*shev Plant)

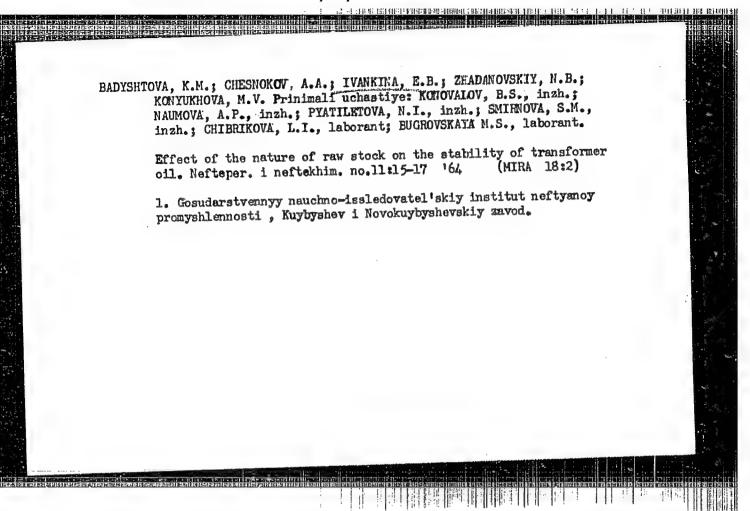
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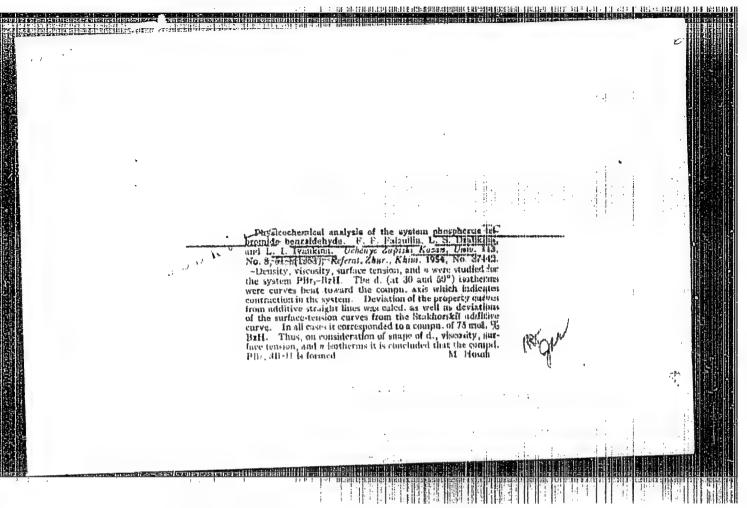
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	I. 22h83-66 E.T(m)/T DJ SOURCE CODE: UR/0055/66/000/003/0030/0032
	AUTHOR: Chesnokov, A. A.; Badyshtova, K. M.; Konyukhova, M. V.; Ivankina, E. B.; Zhadanovskiy, N. B.
	Zhadanovskiy, N. B. ORG: KNIINP; Novokuybyshev Petrochemical Works (Novokuybyshevskiy neftekhimicheskiy kombinat) TITLE: Antioxidative stability of hydrofined transformer oil
	SOURCE: Khimiya i tekhnologiya topliv i masel, no. 3, 1966, 30-32
	TOPIC TAGS: transformer oil, petroleum product, petroleum refining, oxidative degradation, oxidation
	ABSTRACT: The oxidative stability of hydrofined paraffin-free transformer oil was investigated using a sample with the following characteristics: kinematic viscosity (in vestigated using a sample with the following characteristics: kinematic viscosity (in vestigated using a sample with the following characteristics: kinematic viscosity (in vestigated using a sample with the following characteristic indices 0.14×0.000 and 0.14×0.000 are characteristic indices
	index n_D^{20} -1.4980; sulfur contents to the starting transformer oil. It was found that reduction were compared with those of the starting transformer oil. It was found that reduction in the content of the high molecular weight aromatics results in lower antioxidative
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Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 9 (USSR)

AUTHOR: Namkica, M. S. and Gorodetskiy, A. F.

THTLE: Electric Strength of NaCl-KCl System Solid Solutions
(Elektricheskaya prochnost tverdykh rastvorov sistemy NaCl-KCl)

PERIODICAL: May. Tomskogo politekhn. im-ta, 1956, Yol 91, pp 159-164

ABSTRACT: Electric strength and microhardness of single crystals of NaCl-KCl solid solutions have been measured. Effect of composition on electric strength is represented by a curve that has a minimum, and effect on the microhardness by a curve that has a maximum in the region of equal contents of the components. Electric strength values are compared with the values of formation heat and surface energy. An inference is drawn that electric strength decreases with the decrease in system durability. Bibliography: 12 items. Tomskiy politekbnich, in-t (Tomsk Polytechnic lastitute), Tomsk.

A. A. V.

Card 1/1

IVANKINA, M.S.

Ivankina, M.S. [Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)] Measuring the Heat of Formation in KC1-KBr and KC1-NaCl Solid Solutions

(The Physics of Distriction, Transservious of the All-Mode Countries of the Physics of District) Macrow, Inc. wo AS SEER. Lod. 245 p. 3 130 one as p.1 fall.

This volue publishes regard passages of the Fig. Value Tradstance on six Rayans of Dielectios, hold to Duepropetravek in August 1956, sponsound by the Physics of Dielectrics Latoratory of the Pirichesbir toward a found Lobert of August (Physics Tuetland item) for all the AS (Most), and the Riesh apprehim acquire to to design Dueproparatory paradictions of twenty and the Riesh apprehiments on U. 100 p. 1993.

IVANKINA, M.S.

AUTHOR:

501/105-58-7-25/32 Kuchin, V. D., Candidate of Technical

Sciences

Conference on Solid Dielectrics and Semiconductors (Konferentsiya TITLE:

po tverdym dielektrikam i poluprovodnikam)

Elektrichestvo, 1958, Nr 7, pp. 85 - 86 (USSR) PERIODICAL:

The conference took place from February 3rd to February 8th 1958, in the Tomsk Polytechnical Institute (Tomskiy politekhni-ABSTRACT:

cheskiy institut), Section of Properties of Dielectrics. Professor A.A. Vorob'yev (TPI) reported on the great number of investigations in the theory of ionic dielectrics, of cystallization, of the mechanical and electric properties of dielectrics and practical insulation. He showed that the properties of the binary compounds are divided into two groups: the one group of

properties increases with increasing lattice energy, the other is reduced. Docent M.S.Metsik, Irkutsk University (Irkutskiy universitet) developed a theory according to which the cleavage--work in mica crystals is composed of the work against the dipole forces and the work for the separation of the double layer and in the last stage results in an electrostatic mosaic. Docent N.I.

Vorob'yev (TPI) reported on the results of the investigation of

Card 1/4

Conference on Solid Dielectrics and Semiconductors SOV/105-58-7-25/32

dielectric constant, of the losses, the electric strength, and the specific volume resistance under temperature influence, moisture, tropical conditions, in the corena products "fluoroplast-4", "fluoroplast-3", polyethylene, polymonochlorostyrene, "product-10", thermoreactive compounds, and wrethane. M.S.Ivankina (TPI) measured the factor of linear expansion and the heat produced in the formation of solid solutions of the KCl- RbCl, KCl - KBr and NaCl - NaBr system in dependence on the composition in the range of from 25 to 100° C. A. H. Kislina (TPI) found that the simple relations between the physical and chemical properties of the monocrystals of alkali-halide salts and their electrical strength (as described previously in the papers of A.A.Vorob'yev), are not always established in the case of solid solutions. Docent P.A. Savintsev and others (TPI) found that the strength of alkali--halide solutions determined according to the method of boring and mutual grinding increases with increasing molecular concentration its change according to its composition following a curve with a minimum. Docent V.V. Puchkovskiy, Chelyebinsk Institute of Mechanization and Electrification of Agriculture (Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva) by means of experiments found that the dependence of the maximum

Card 2/4

507/105-58-7-25/32 Conference on Solid Dielectrics and Semiconductors overheating temperature in the center of the small plate on the temperature of the surrounding air has maxima in the case of a change of this temperature of from 20 - 100° C. Section of Ceramics: V.M.Belousov (TPI) gave a calculation of the ceramic structure. Docent V.A. Presnov and others (SFTI) reported on investigations of the vacuum-tight ceramic structure and the nature of the ceramic-metal boundary. Section of Crystallization; Professor A.M. Kuz'min and assistants (TPI) dealt with geological problems. S.A. Stroitelev (TPI) gave a method for the selection of effective admixtures. A.P. Izergin developed a method and an equipment for the purification of liquids from small admixture quantities. In the joint session of the sections concerned with the breakdown of solid dielectrics, ceramics, polarization, losses, and conductivity Professor N.I. Shishkin spoke about the "Electric Conductivity of Solidified Glasses". The final general meeting was opened by Ye.G. Papush (Dnepropetrovsk Institute of Railway Traffic Engineers) who reported on the "Foundations of the Theory of Polarons". I. Ye. Balygin and A. P. Rumyantsev reported on the investigation of the dissusion processes of the silver isotope Card 3/4

Conference on Solid Dielectrics and Semiconductors SOV/105-58-7-25/32

 110 in amorphous and crystalline quartz, and in agglomerated oxides as $^{1}2^{0}_{3},\ ^{2}r^{0}_{2}$ and $^{1}i^{0}_{2}^{\circ}$

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

1. Dielectrics--USSR 2. Semiconductors--USSR 3. Conferences

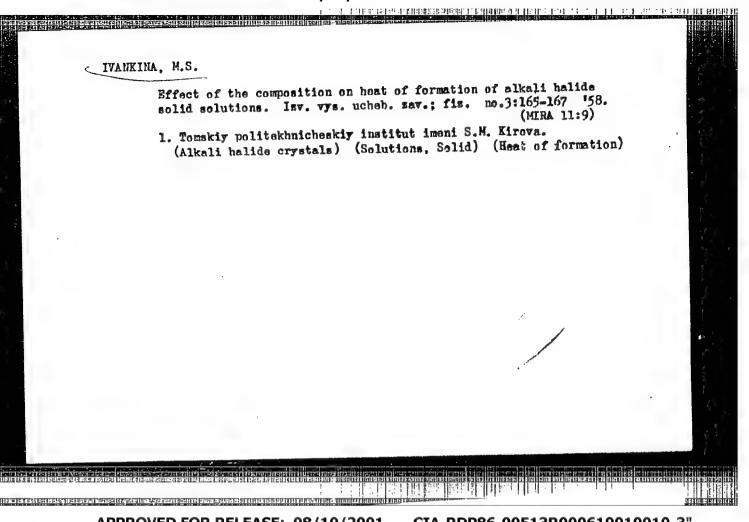
Card 4/4

IVANKINA, M.S.

Crystalline lattice structure of alkali metal halides in solid solutions. Izv. vys. ucheb.zzv.; Fiz. no.1:101-105 '58. (MIRA 11:6)

1.Tomskiy politekhnicheskiy institut imeni S.M. Kirova.

(Alkali halide crystale) (Solutions, Solid)



CIA-RDP86-00513R000619010010-3" APPROVED FOR RELEASE: 08/10/2001

NEO BRANDA MARKETIAN DESEMBAR TREMENDAÇÃO SONTANIA PERONCALINA EN DIRECTOR DE UNIDADO PRED INTERNA MARKETARIA EN ALTO MARKETARIA EN A S0V/139-58-6-8/29 Ivankina, M.S. Dependence of the Linear Expansion Coefficient of AUTHOR: Solid Solutions of Alkali and Halide Salts on their TITIE: Composition (Zavisimost' keeffitsiyenta lineyrogo rasshireniya tverdykh rastvorev shchelechno-baloidnykh soley of ikh sostava) PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika. 1958, Nr 6, pp 57-59 (USSR) The paper was presented at the Conference of Higher Educational Establishments on Dielectrics and Semi-ABSTRACT: conductors, held in Tomsk in February 1958. Dependence of the linear expansion coefficient of the solid solutions KC1-RbC1, KC1-KEr and MaC1-NaBr on their composition was measured in the temperature region The samples were in the form of 5 x 5 x 25 mm rods prepared from monocrystals freshly grown by the Kyropoulos method (Ref 2). The thermal expansion was measured by means of a liquid dilatometer designed and constructed by P.P. Odintsov. This dilatometer is shown in Fig 1. The sample (1) was placed in a quartz tube (3) Card 1/3

SOV/139-58-6-8/29

Dependence of the Linear Expansion Coefficient of Solid Solutions of Alkali and Halide Salts on their Composition

and a quartz rod (2) was pressed against the sample. The free end of the quartz rod rested on a membrane (8) of a brass chamber (6) filled with a liquid (5). The expansion of the sample was given by the rise of the liquid level in a calibrated capillary (7) connected to the brass chamber (6). This instrument; made it possible to measure changes in the length of the sample to within ± 0.0001 mm; this corresponds to ± 10-6 deg-1 within + 0.0001 mm; this corresponds to 1 to a special on in determination of the linear expansion coefficient for a sample of 25 mm length. The results are plotted as dependences of the linear expansion are plotted as dependences of the linear expansion coefficient & on the composition of the solid solutions in Fig 2-4. The author draws the following conclusions from Fig 2-4: 1) increase of the linear expansion coefficient of the solid solutions KG: -RtCl. KG1-KEr and NaCl-NaBr compared with the coefficients of the components confirms that when these solid solutions are formed the interaction between the lattice ions is weakened; 2) the departure of the linear expansion coefficient of a solid solution from additivity of the

Card 2/3

301/135-58-6-8/29

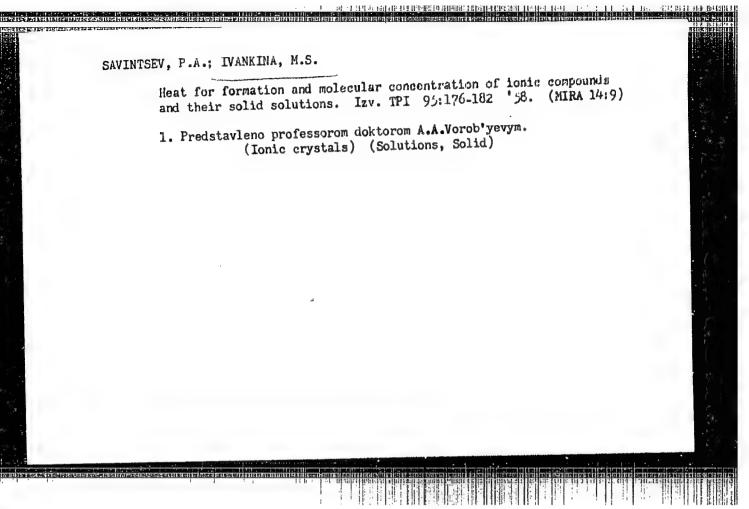
Dependence of the Linear Expansion Coefficient of Solid Solutions of Alkali and Halide Salts on their Composition

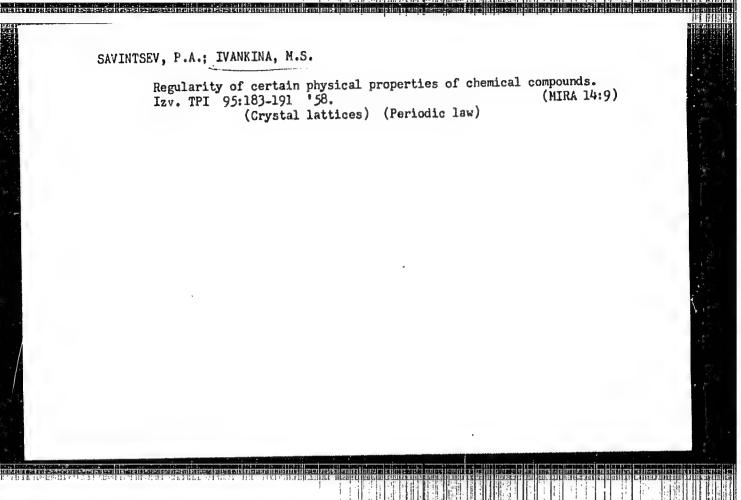
linear expansion coefficients of its components increases with the number of defects of the prystal lattice. Acknowledgements are made to A.A.Vorotiyev and Ye.K.Zavadovskaya for advice and V.I.Porisov for assembly of the apparatus. There are 4 figures and 10 Soviet references.

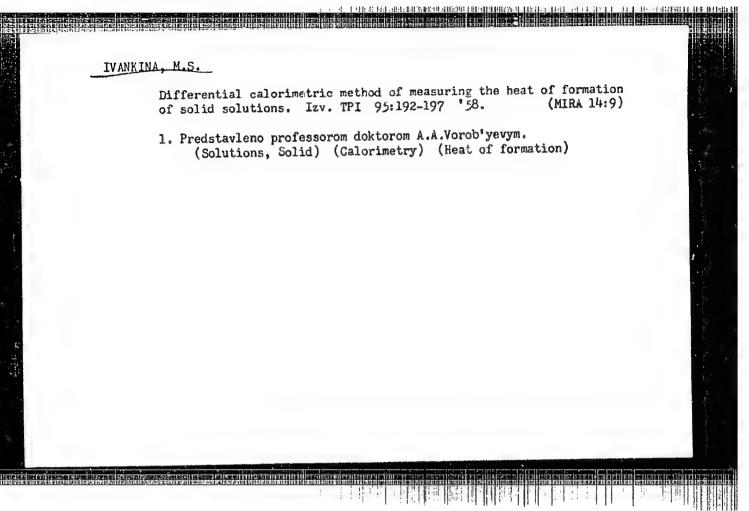
ASSOCIATION: Tomskiy Politekhnicheskiy Institut imeni S.M.Kitova (Tomsk Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: 9th May 1958

Card 3/3



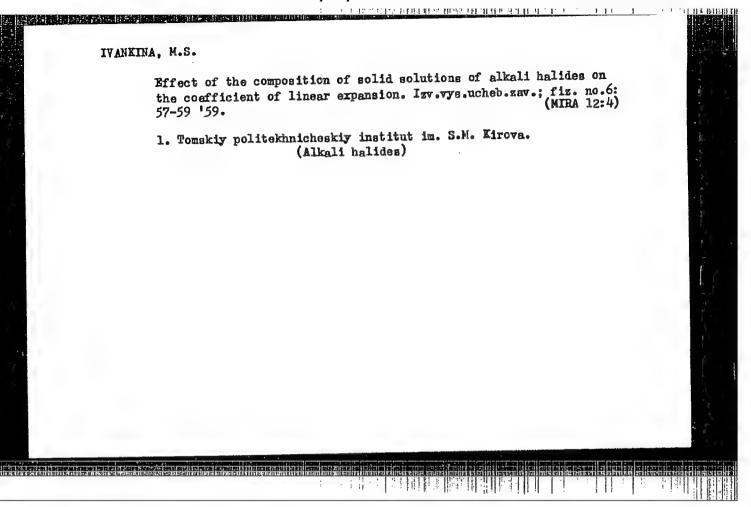




ZAVADOVSKAYA, Ye.K.; IVANKINA, M.S.

Effect of the length of storage of solid solutions of alkali halide salts on their physical properties. Izv. vys.ucheb.zav.; fix. no.5:172-175 '59. (NIRA 13:4)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova. (Solutions, solid) (Alkali halides)



VOROB'YEV, A.A.; ZAVADOVSKAYA, Ye.K.; IVANKINA, M.S.; SAVINTSEV, P.A.

Physical properties of solid solutions of alkali halide compounds, and the molecular concentration. Izv.vys.ucheb.zav.; fiz. no.6:162-165 '59. (MRMA 13:6)

1. Tomskiy politekhnicheskiy institut imeni S.W.Kirova. (Alkali metal halides) (Solutions, Solid)

IVANKINA, M.S.

66170

SOV/143-59-9-7/22

5(0), 24(3) 24.7500

AUTHORS:

Vorob'yev, A.A., Doctor of Physical and Mathematical Sciences, Professor, Ivankina, M.S., Kislina, A.N., Candidate of Technical Sciences, and Savintsev, P.A., Candidate of Physical and Mathematical Sciences,

Docent

TITLE:

The Physical and Chemical Properties of Insulating Crystals

PERIODICAL:

Izvestiya vysshikh ucebnykh zavedeniy, Energetika, 1959, Nr 9,

pp 43-47 (USSR)

ABSTRACT:

During the years of Soviet rule, the scientists of Tomsk performed considerable research in studying the structures mechanical, thermal and electrical properties of ion crystals and alloys. The energy of the crystal lattice was selected as the magnitude which determines the structure and the interaction of particles in a crystal lattice, A.A. Vorob'yev (Ref.1). The values of the crystal lattice energy are unknown for crystals with admixtures. P.A. Savintsev (Ref.2) showed that the comparison of properties of crystals and alloys with identical type of the crystal lattice and identical chemical bonds between the particles may be performed

Card 1/4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619010010-3"

66170 **SOV**/143-59-9-7/22

The Physical and Chemical Properties of Insulating Crystals

by the molecular concentration α : $\alpha = \frac{D}{N}$. 10^3 where D = crystal density; M = molecular weight. According to the Born formula, α is connected with the crystal lattice energy $\alpha = C \sqrt{\frac{D}{N}}$ where C

is a constant. According to Born's formula, the energy of alkali halides is proportional to the ratio D:M. The authors compare the properties of crystals and alloys with the lattice energy and the molecule concentration. The Tomsk scientists devoted great attention to studies of the mechanical properties of ion crystals. V.D. Kuznetsov (Ref.3) analyzed methods of determining the hardness of brittle bodies and developed a number of new methods: drilling, damped oscillations, mutual grinding. V.N. Kashcheyev (Ref.4) and L.A. Kudryavtseva (Refs.5,6) showed that the hardness in the method of mutual grinding does not depend on the type of the abrative powder used for grinding, only when the mechanical strength of the powder is several times greater than the strength of crystals to be ground. In this case the hardness ratio coincides with the ratios of surface energies calculated by Born and Shtern.

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SOV/143-59-9-7/22

The Physical and Chemical Properties of Insulating Crystals

P.A. Savintsev, V.Ya. Zlenko and A.F. Naumov (Ref.7) determined the hardness in drilling of alkali halide monocrystals with admixtures. They found that admixtures of alkali halide salts reduce the hardness of crystals. P.A. Savintsev and V.V. Kutsepalenko (Refs.8,10) stated that the greatest hardness value is found in the area of equal component concentrations, which corresponds to the smallest value of C. M.S. Ivankina (Refs.12,13,14) investigated the structure of the crystal lattice of solid solutions of alkali halide salts and a number of their thermal properties depending upon the composition in connection with the energy of interaction of components. A.A. Vorob'yev, Ye.K. Zavadovskayarand A.M. Trubitsin (Ref.16) and K.A. Vodop'yanov and G.I. Galibina (Ref.23) determined the electrical properties of ion alloys of different stability degrees at room temperature. A.N. Kislina (Refs.19,20,21) investigated the electric strenght of KJ-KBr, KJ-NaJ and other properties of alkali halides. The authors present the following conclusi : The physical and chemical properties of ion crystals and their solid solutions are determined by the crys-

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SOV/143-59-9-7/22

The Physical and Chemical Properties of Insulating Cyrstals

tal lattice energies. The formation of alkali halide solid solutions KCl-NaCl, NaCl-NaBr, NaCl-NaJ, are accompanied by a destruction of the crystal lattice, absorption of heat, increased linear expansion coefficient, increased electric conductivity, a reduction of the density and molecule concentration, and a hardness reduction in mutual grinding and drilling. The aging of solid solutions will result. There are 2 sets of graphs and 24 Soviet references.

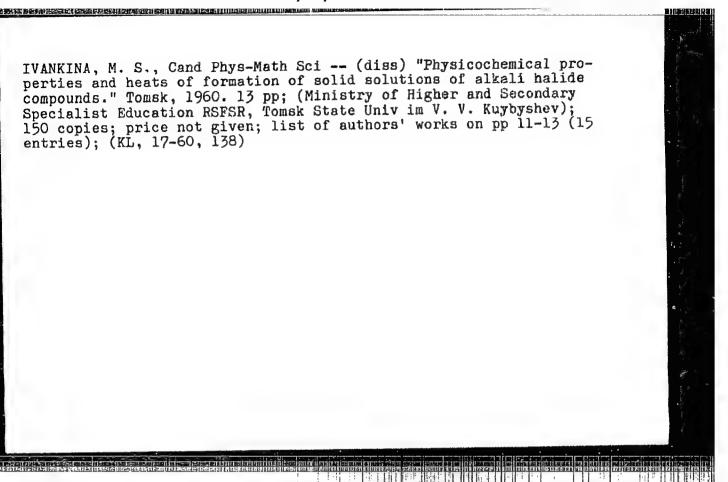
ASSOCIATION:

Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M. Kirova (Tomsk - Order of the Red Labor Banner - Polytechnic Institute imeni S.M. Kirov)

SUBMITTED:

April 21, 1959

Card 4/4



ZAVADOVSKAYA, Ye.K.; IVANKINA, M.S.; MELIK-GAYKAZYAN, I.Ya.

Pore formation during annealing of mixed ECI-Khr crystals. Kristallografiia 5 no.2:324-325 Mr-Ap '60. (MIRA 13:9)

1. Tomskiy politekhnicheskiy institut. (Potassium chloride) (Potassium bromide)

81959 S/181/60/002/04/19/034 B002/B063

E : The influence of the control of

24.7600 AUTHORS:

Zavadovskaya, Ye. K., Ivankina, M. S., Melik-Gaykazyan,

I. Ya.

TITLE:

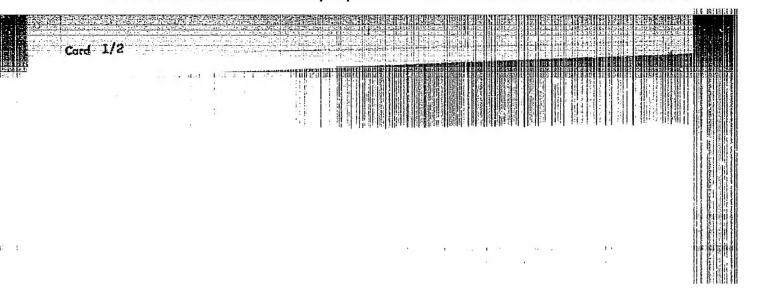
The Problem of the Influence of Annealing on the Physical Properties of Solid Solutions of Alkali Haloid Salts

Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 665-669 PERIODICAL:

TEXT: Mixed crystals composed of 51% KCl and 49% EBr, as well as 49.3% NaCl and 50.7% NaBr were bred by Kyropoulos' method. The crystals were kept at 600°C for 5, 10, 20, 25, 50, and 75 hours; the temperature was kept constant with an accuracy of + 2°C with the aid of the recording device 3MM-09 (EPP-09). The following was then measured on the crystals: density, lattice constant, molecular concentration, linear expansion coefficient, and heat conductivity (Tables 1 and 2). The cleavage faces of the crystals were examined with the aid of a polarization microscope and the camera " 3ehut" ("Zenit"). (Figs. 1, 2, and 3). On heating, the vacancies are concentrated and form negative crystals inside. The faces [100] and [110] are particularly developed. Cleavage cracks are the cause of the

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